

Notice of Allowability

Application No.

09/737,510

Examiner

Gregory B. Sefcheck

Applicant(s)

KIM ET AL.

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed 7/2/2007 and the telephone conversation on 9/4/2007.
2. ☒ The allowed claim(s) is/are 22-38, 40, and 41, respectively renumbered 1-19.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian Bolinger on 9/4/2007.

The application has been amended as follows:

Claims 22 and 29 have been amended as shown on the attached sheets.

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Frischknecht et al. (US005878044A)
- Hall (US005337306A)
- Ardon et al. (US004566094)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory B. Sefcheck whose telephone number is 571-272-3098. The examiner can normally be reached on Monday-Friday, 8:00am-4:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GBS *GBS*
9-4-2007

Wing Chan
9/10/07
WING CHAN
SUPERVISORY PATENT EXAMINER

Claim 22: A system for transmitting and receiving one of T1 and E1 control data in a time division multiplexer (TDM) communication network, comprising:

a master control source for providing the TDM control data for the communication network, the communication network comprising one of a T1 system and an E1 system;

at least one slave TDM multiplexer within the TDM communications network, the at least one slave TDM multiplexer having a plurality of associated data sources and being operative to produce a TDM signal, comprising a plurality of fixed-length frames, each of the plurality of associated data sources being represented by one of a plurality of time-slots of equal length that reoccur at a fixed length across each of the plurality of fixed-length frames, the plurality of time-slots representing respective data channels of the TDM communications network, a given slave TDM multiplexer comprising:

a transmitter component, having an associated transmit processor, for accepting the TDM control data from the master control source and inserting the TDM control data into at least a portion of one of the plurality of fixed-length, recurrent time-slots of equal length in each frame of the plurality of frames the TDM signal; and

a receiver component for extracting the TDM control data from the TDM signal and passing the TDM control data to a local processor.

Claim 29: A system for transmitting and receiving time division multiplexer (TDM) control data in a time division multiplexer (TDM) communication network, comprising:

a master control source for providing the TDM control data; and

a first slave TDM multiplexer within the TDM communications network that accepts the TDM control data from the master control source and inserts the TDM control data into a TDM signal;

a second slave TDM multiplexer, comprising a transmitter component having an associated transmit processor and a receiver component having an associated receive processor, that is configured to operate in a bridging mode such that the TDM signal from the first slave multiplexer is received at the receiver component, bridged to the transmitter component, and retransmitted independently of the transmit processor and the receive processor; and[[.]]

a third slave TDM multiplexer that receives the TDM signal from the second slave TDM multiplexer and extracts the TDM control data in the TDM signal.